

# Purchase Order Receipt Listing

Tuesday, January 07, 2014 12:43:16 PM

All amounts are calculated in domestic currency.

All Vendors PO ID po22359 Receipt Dates from 1/7/2014 to 1/7/2014 All Line Item Types  
All Item ID/GL/WOs All Rec. Employees All Currencies  
Grouped by Vendor ID

| Purchase Order ID/<br>Curr Type                        | Line Nbr/<br>Insp Req | Project ID | Reference/<br>Description/<br>Cert Std | PO U/M/<br>Stock U/M | Required Date | Recv Date/<br>Recv Emp | Recv Qty<br>(PO U/M) | Cost Per Unit/<br>Recv Value | Inspected Qty/<br>Rejected Qty<br>(PO U/M) | MRB Qty/<br>MRB Reject Qty | Book Amt |
|--|-----------------------|------------|--|----------------------|---------------|------------------------|----------------------|------------------------------|--|----------------------------|----------|
| <b>Vendor ID \ Vendor Name VC-MET001 Metaux Castle</b> |                       |            |  |                      |               |                        |                      |                              |  |                            |          |
| PO22359  | 2                     |            | M303R0.187                             | f                    | 12/20/2013    | 1/7/2014               | 47.6667              | \$0.52                       | 0.0000                                     | 0                          | \$24.65  |
| CAD  | No                    |            | 303 Round Bar<br>0.187"                | f                    | 36.0000       | DES102                 |                      | \$24.65                      | 0.0000                                     | 0                          |          |
|  |                       |            | m127864                                |                      |               |                        |                      |                              |  |                            |          |
|  | 3                     |            | M303R1.250                             | f                    | 12/20/2013    | 1/7/2014               | 36.2500              | \$9.31                       | 0.0000                                     | 0                          | \$337.41 |
|  | No                    |            | 303 Round Bar 1.250                    | f                    | 36.0000       | DES102                 |                      | \$337.41                     | 0.0000                                     | 0                          |          |
|  |                       |            | m127864                                |                      |               |                        |                      |                              |  |                            |          |
|  | 4                     |            | M304R0.375                             | f                    | 12/20/2013    | 1/7/2014               | 24.0000              | \$1.10                       | 0.0000                                     | 0                          | \$26.40  |
|  | No                    |            | 304 ROUND BAR<br>0.375                 | f                    | 24.0000       | DES102                 |                      | \$26.40                      | 0.0000                                     | 0                          |          |
|  |                       |            | m127864                                |                      |               |                        |                      |                              |  |                            |          |
|  | 5                     |            | M304R1.000                             | f                    | 12/20/2013    | 1/7/2014               | 24.0000              | \$6.20                       | 0.0000                                     | 0                          | \$148.70 |
|  | No                    |            | 304 round bar 1.00                     | f                    | 24.0000       | DES102                 |                      | \$148.70                     | 0.0000                                     | 0                          |          |
|  |                       |            | m127864                                |                      |               |                        |                      |                              |  |                            |          |
|  | 6                     |            | M7075T73B2.500X0                       | f                    | 12/27/2013    | 1/7/2014               | 12.0000              | \$51.98                      | 0.0000                                     | 0                          | \$623.76 |
|  |                       |            | 3.25                                   |                      |               |                        |                      |                              |  |                            |          |
|  | No                    |            | 7075-T73 Bar 2.50 x<br>3.25            | f                    | 12.0000       | DES102                 |                      | \$623.76                     | 0.0000                                     | 0                          |          |
|  |                       |            | m127864                                |                      |               |                        |                      |                              |  |                            |          |

Total Received Quantity: 143.9167  
Total Qty to Inspect (PO U/M): 0.0000  
Total Reject Quantity: 0.0000  
Total Receipt Value: \$1,160.92  
Total Balance Due Quantity: 0.0000

# Receiving Report

Date: 12/01/07  
 Supplier: METACAST

Batch No: M17864  
 Dart P/O: 22359

Packing Slip: Yes ☒ No ☐  
 Invoice: Yes ☐ No ☒  
 Receipt: Cash ☐ Cr ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐  
 Waybill Attached: Yes ☒ No ☐ N/A ☐  
 Shipment Complete: Yes ☒ No ☐ N/A ☐  
 QC6 Inspection ☒ N/A ☒  
 Work Order DAS 16 14/01/07

## Discrepancies

| Part Number | Description | Quantity Ordered | Quantity Received | Quantity Returned | Quantity Short | Comments |
|-------------|-------------|------------------|-------------------|-------------------|----------------|----------|
| M303B       | 1.00 X 2.00 | 12               | 0                 | 0                 | 12             |          |
|             |             |                  |                   |                   |                |          |
|             |             |                  |                   |                   |                |          |

Initials of receiver (if shipment OK) Level 12 [Signature]

Production/Admin: \_\_\_\_\_  
 Date \_\_\_\_\_  
 Received/Costing \_\_\_\_\_  
 Initial \_\_\_\_\_

Location \_\_\_\_\_



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A. M. Castle &amp; Co.

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Page 1 of 2

Shipment No: 1997508

|  |                         |  |   |  |
|--|-------------------------|--|---|--|
| <b>Ship From:</b><br>A. M. Castle & Co.<br>MONTREAL - CASTLE<br>METALS<br>835-SELKIRK AVENUE<br>POINTE CLAIRE, QUEBEC<br>H9R 3S2 |                         | <b>Sold To:</b><br>DART AEROSPACE LTD<br>1270 ABERDEEN<br>HAWKESBURY, ON K6A 1K7<br>CA | <b>Ship To:</b><br>DART AEROSPACE LTD<br>1270 ABERDEEN<br>HAWKESBURY, ON K6A<br>1K7 CAN | <b>Deliver To:</b><br>DART AEROSPACE LTD<br>1270 ABERDEEN<br>HAWKESBURY, ON<br>K6A 1K7<br>CA |
| <b>Date Shipped</b><br>03-JAN-2014   | <b>F.O.B.</b><br>ORIGIN | <b>Freight Terms</b><br>Prepaid  | <b>Carrier</b><br>MANITOULIN  | <b>BOL No</b><br>1997508-2   |

Final Destination Branch - MON

## Shipment Details

| Order No          | Line No   | Item No     | Description  |     |            |             |                  |
|-------------------|---|-------------|--|-----|------------|-------------|------------------|
| 3153119           | 1   | 752241.MO   | 2.5000.PL.7075.T7351.ALUMINUM.US1.48.5000.144.5000<br>CUT 2SIDED TO 3.25 IN ( + .0620/- .0000 IN) X 72 IN ( + .2500/-<br>.2500 IN) - ALUMINUM PLATE SAW SPECIFICATIONS:<br>AMS-QQ-A-250/12<br>ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST<br>RECEIVE AT TIME OF DELIVERY<br>ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT<br>#S<br>FORWARD COPY OF P/S TO TRACY ( MONTREAL )<br>Email P/s and certs to: clavoie@dartaero.com |     |            |             |                  |
| Purchase Order No | Part Number   | Ordered Qty | Invoice Qty  |     |            |             |                  |
| 22359             |   | 2.00 PCS    | 2.00 PCS   |     |            |             |                  |
| Details           | ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY<br>ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #S<br>FORWARD COPY OF P/S TO TRACY ( MONTREAL )<br>Email P/s and certs to: clavoie@dartaero.com<br>CUSTOMS BROKER: GEORGE H. YOUNG<br>END USER: DART AEROSPACE<br>END USE: COMMERCIAL AIRCRAFT PARTS<br>ECCN # EAR99 |             |  |     |            |             |                  |
| Delivery No.      | Mill  | Heat Number | Mech Id  | PCS | Width (IN) | Length (IN) | Shipped Qty(LBS) |





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Page 2 of 2

|           |                    |          |  |   |  |  |          |
|-----------|--------------------|----------|--|---|--|--|----------|
| 119468527 | KAISER<br>ALUMINUM | 658321A5 |  | 2 |  |  | 121.0061 |
|-----------|--------------------|----------|--|---|--|--|----------|

|   |             |
|---|-------------|
| These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.  |             |
| We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit. |             |
| Reviewed by Authorized Castle Metals Representative:  | Date: Name: |

|  |
|--|
| <b>SHIP TO:</b><br>A M CASTLE & CO<br>3050 SOUTH HYDRAULIC<br>WICHITA, KS 67216                      |
| <b>SOLD TO:</b><br>AM CASTLE & CO- SOLD TO<br>1420 KENSINGTON RD<br>SUITE 220<br>OAK BROOK, IL 60523 |

**KAISER  
ALUMINUM**  
Trentwood Works - Spokane, WA 99215  
Phone: (800) 367-2586

## CERTIFIED TEST REPORT

Serial Number  
4311155

|                               |                         |                                 |                                     |  |
|-------------------------------|-------------------------|---------------------------------|-------------------------------------|--|
| CUSTOMER PO NUMBER:<br>236382 | WORK PACKAGE:           | CUSTOMER PART NUMBER:<br>752241 | SHIP RUN/LOAD:<br>102746/11         | GOV'T CONTRACT NUMBER:                       |
| KAISER ORDER NO:<br>1157843   | LINE ITEM:<br>1         | SHIP DATE:<br>1-OCT-2013        | ALLOY:<br>7075                      | CLAD:<br>BARE                                |
|                               |                         |                                 | TEMPER:<br>T7351                    | PRODUCT DESCRIPTION:<br>Kaiser Select® Plate |
| WEIGHT SHIPPED:<br>3588 LB    | QUANTITY:<br>2 PCS EST. | TRUCK B/L #:<br>2044229         | GAUGE:<br>2.5000 IN<br>(63.5000 MM) | DIAMETER/WIDTH:<br>48.500 IN<br>(1231.9 MM)  |
|                               |                         |                                 |                                     | LENGTH:<br>144.500 IN<br>(3670.3 MM)         |

MHU 1719596; LOT 658321A5: 2 pieces;

### Certified Specifications

AMS 4078/RevJ  
ASTM B 209/Rev10  
BSS 7055/RevA  
DPS 4.713/RevAK  
GSS16100/RevG/Amd1

AMS-QQ-A-250/12  
ASTM B 594/Rev09  
CMMP 025/RevU  
EAC MS1011/RevE  
MMS 159/RevT

AMS-STD-2154/RevA  
BAC 5439/RevH  
CSTI 006/RevE  
GAMPS 9101/RevB  
PS 21211/RevL

Test Code: 4297

### Test Results

Lot: 658321A5 Cast 559 Drop 16 Ingot 4 Melted in USA

(ASTM E8/B557)  
(EN 2002-1)

|          |        |                  |                            |                            |              |
|----------|--------|------------------|----------------------------|----------------------------|--------------|
| Tensile: | Temper | Dir / # Tests    | Ultimate KSI (MPA)         | Yield KSI (MPA)            | Elongation % |
|          | T7351  | LT / 2 (Min:Max) | 71.1 : 71.8<br>(490 : 495) | 59.1 : 59.8<br>(407 : 412) | 11.7 : 11.8  |

(ASTM E1004)  
(EN 2004-1)

|                      |          |          |
|----------------------|----------|----------|
| Conductivity %IACS : | 41.0 Min | 41.2 Max |
| (MS/M) :             | 23.8 Min | 23.9 Max |

(ASTM E1251)

|             |      |      |     |      |     |      |     |      |      |      |          |
|-------------|------|------|-----|------|-----|------|-----|------|------|------|----------|
| Chemistry:  | SI   | FE   | CU  | MN   | MG  | CR   | ZN  | TI   | V    | ZR   | OTHER    |
| Actual(wt%) | 0.06 | 0.19 | 1.5 | 0.02 | 2.5 | 0.20 | 5.8 | 0.03 | 0.01 | 0.01 | TOT 0.05 |







Trentwood Works - Spokane, WA 99215  
Phone: (800) 367-2586

## CERTIFIED TEST REPORT

Serial Number  
4311155

### ALLOY LIMITS

|          | SI   | FE   | CU  | MN   | MG  | CR   | ZN  | TI   | V    | ZR   | OTHER | MAX  |
|----------|------|------|-----|------|-----|------|-----|------|------|------|-------|------|
| 7075     |      |      |     |      |     |      |     |      |      |      |       |      |
| MIN(wt%) | 0.00 | 0.00 | 1.2 | 0.00 | 2.1 | 0.18 | 5.1 | 0.00 | 0.00 | 0.00 | EACH  | 0.05 |
| MAX(wt%) | 0.40 | 0.50 | 2.0 | 0.30 | 2.9 | 0.28 | 6.1 | 0.20 | 0.05 | 0.05 | TOT   | 0.15 |

Aluminum Remainder

### TEST NOTES

Metal represented by this test report was 100% immersion ultrasonically tested from one side with 3mm dead zones top and bottom and meets the Class A and Class B requirements of all specifications referenced on this test report. No surface marking of sonic indications is performed.

### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC (Kaiser) hereby certifies that metal shipped under this order was melted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content. This material has been inspected, tested and found in conformance with the requirements of the applicable specifications as indicated herein. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements. All metal which is solution heat treated complies with AMS 2772. Any warranty is limited to that shown on Kaiser's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of Kaiser Aluminum Fabricated Products, LLC laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law. ISO-9001:2000 certified.

JAMES HEMENWAY, LABORATORIES SUPERVISOR





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PACKING SLIP/  
CERTIFICATE OF CONFORMANCE

Page 1 of 1

Shipment No:1997508

| Ship From:  |        | Sold To:  | Ship To:   | Deliver To:  |
|---|--------|---|--|--|
| A. M. Castle & Co.<br>MONTREAL - CASTLE<br>METALS<br>835-SELKIRK AVENUE<br>POINTE CLAIRE, QUEBEC<br>H9R 3S2 |        | DART AEROSPACE LTD<br>1270 ABERDEEN<br>HAWKESBURY, ON K6A 1K7<br>CA | DART AEROSPACE LTD<br>1270 ABERDEEN<br>HAWKESBURY, ON K6A<br>1K7 CAN | DART AEROSPACE LTD<br>1270 ABERDEEN<br>HAWKESBURY, ON<br>K6A 1K7<br>CA |
| Date Shipped  | F.O.B. | Freight Terms   | Carrier  | BOL No   |
| 03-JAN-2014   | ORIGIN | Prepaid   | MANITOULIN   | 1997508-2  |

| Shipment Details | Final Destination Branch - MON |
|------------------|--------------------------------|
|------------------|--------------------------------|

| Order No  | Line No                        | Item No     | Description  |             |            |             |                  |
|---|--------------------------------|-------------|--|-------------|------------|-------------|------------------|
| 3144363   | 4                              | 14828       | 1.0000.RD.304/304L.STAINLESS.CF.ANN.132.0000-156.0000<br>SPECIFICATIONS: ASTM A276 |             |            |             |                  |
| Purchase Order No   |                                | Part Number | Ordered Qty  | Invoice Qty |            |             |                  |
| 22359   |                                |             | 24.00 FT   | 24.0000 FT  |            |             |                  |
| <b>Details</b>  |                                |             |  |             |            |             |                  |
| ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY<br>ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #S<br>FORWARD COPY OF P/S TO TRACY ( MONTREAL )<br>Email P/s and certs to: clavoie@artaero.com<br>END USER: DART AEROSPACE<br>END USE: COMMERCIAL AIRCRAFT PARTS<br>ECCN # EAR99 |                                |             |  |             |            |             |                  |
| Delivery No.  | Mill                           | Heat Number | Mech Id  | PCS         | Width (IN) | Length (IN) | Shipped Qty(LBS) |
| 119464723   | NORTH<br>AMERICAN<br>STAINLESS | J4N0        |  | 2           |            | 144.0000    | 67.0000          |

These commodities/technologies are subject to US Export Administration &amp; US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle &amp; Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Reviewed by Authorized Castle Metals Representative:

Date: Name:

These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to US law prohibited.

Date Printed: 03-JAN-2014 10:33:00 AM





NORTH AMERICAN  
STAINLESS

METALLURGICAL TEST REPORT

6870 Highway 42 East  
Ghent, KY 41045-9615  
(502) 347-6000

Certificate: 871445 04 Mail To: Ship To: Date: 9/18/2013 Page: 1 Of 1  
A.M. CASTLE AND COMPANY A.M. CASTLE AND COMPANY Steel: 304/304L  
1420 KENSINGTON ROAD-SUITE 220 3400 NORTH WOLF ROAD Finish: Cold Draw  
OAK BROOK IL 60523 FRANKLIN PARK IL 60131 Dia/Tk: 1.0000 in  
Customer: 0032 001 Leg Length: 144.00 in  
NAS Order: LP 4784 1 Item Code: 14828 Corrosion: ASTM A262-10 PRAC A/E OK  
Your Order: 233195

PRODUCT DESCRIPTION:

ASTM A193/10a-ASME SA193/10 CL 1 GR B8  
GRAIN SIZE= 4-6  
Round Bar, Annealed, Cold Draw  
UNS 30400/30403 EN 10204 3.1, ASTM A484/11  
ASTM A276/10, ASTM A479/13a, ASTM A182/10 CHEM ONLY,  
ASME SA479/10a, ASME SA182/10 CHEM ONLY  
AMS 5639H, AMS 5647J, AMS QQS-763B, QQS-763F, ASTM F899/11  
SOLUTION ANNEAL TEMP 1900F MIN, ASTM A320/08 CL 1 GR B8

*S. H. 11/15/17*

REMARKS:

COMPLIES W/REQUIREMENTS OF DPAR 252.225-7014A-1 EU DIRECTIVE  
2011/65/EU ROHS. EAF+ROD+CC. NO WELD REPAIR. MELTED AND MFG  
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

| Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| BF70773       | 4347          |               |               |               |               |               |               |               |               |

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

| Heat                 | Supplier # | CM | C %  | CO % | CR %  | CU % | MN % | MO % | N %  | NI % | P %  | S %   |
|----------------------|------------|----|------|------|-------|------|------|------|------|------|------|-------|
| J4N0                 | US         |    | .016 | .29  | 18.05 | .44  | 1.43 | .38  | .077 | 8.55 | .031 | .0225 |
| SI %                 |            |    |      |      |       |      |      |      |      |      |      |       |
| .24                  |            |    |      |      |       |      |      |      |      |      |      |       |
| MECHANICAL ID        |            |    |      |      |       |      |      |      |      |      |      |       |
| ITEM CODE 14828      |            |    |      |      |       |      |      |      |      |      |      |       |
| LOT NUMBER 233195    |            |    |      |      |       |      |      |      |      |      |      |       |
| RECEIPT DATE 9-18-73 |            |    |      |      |       |      |      |      |      |      |      |       |
| SUPPLIER NAS         |            |    |      |      |       |      |      |      |      |      |      |       |
| SPECIFICATION N      |            |    |      |      |       |      |      |      |      |      |      |       |
| LOS                  |            |    |      |      |       |      |      |      |      |      |      |       |
| COMMENT              |            |    |      |      |       |      |      |      |      |      |      |       |
| APPROVED             |            |    |      |      |       |      |      |      |      |      |      |       |

MECHANICAL PROPERTIES

| 1 d     | HB | No.   | .2YS  | KSI    | UTS   | KSI   | RA | % | Elong | % 4D |
|---------|----|-------|-------|--------|-------|-------|----|---|-------|------|
| BF70773 | RL | 223.0 | 95.00 | 106.00 | 52.00 | 41.00 |    |   |       |      |

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS

Technical  
Dept. Mgr.  
ERIC HESS



**Castle Metals®**

A. M. Castle &amp; Co.

**PACKING SLIP/  
CERTIFICATE OF CONFORMANCE**

Page 1 of 1

Shipment No: 1997508

|  |                         |  |   |  |
|--|-------------------------|--|---|--|
| <b>Ship From:</b><br>A. M. Castle & Co.<br>MONTREAL - CASTLE<br>METALS<br>835-SELKIRK AVENUE<br>POINTE CLAIRE, QUEBEC<br>H9R 3S2 |                         | <b>Sold To:</b><br>DART AEROSPACE LTD<br>1270 ABERDEEN<br>HAWKESBURY, ON K6A 1K7<br>CA | <b>Ship To:</b><br>DART AEROSPACE LTD<br>1270 ABERDEEN<br>HAWKESBURY, ON K6A<br>1K7 CAN | <b>Deliver To:</b><br>DART AEROSPACE LTD<br>1270 ABERDEEN<br>HAWKESBURY, ON<br>K6A 1K7<br>CA |
| <b>Date Shipped</b><br>03-JAN-2014   | <b>F.O.B.</b><br>ORIGIN | <b>Freight Terms</b><br>Prepaid  | <b>Carrier</b><br>MANITOULIN  | <b>BOL No</b><br>1997508-2   |

|                         |                                       |
|-------------------------|---------------------------------------|
| <b>Shipment Details</b> | <b>Final Destination Branch - MON</b> |
|-------------------------|---------------------------------------|

|  |                                       |                                |   |                                   |
|--|---------------------------------------|--------------------------------|---|-----------------------------------|
| <b>Order No</b><br>3144363   | <b>Line No</b><br>1                   | <b>Item No</b><br>4540         | <b>Description</b><br>0.1875.RD.303.STAINLESS.CD.ANN.132.0000-156.0000<br>SPECIFICATIONS: ASTM A582 |                                   |
| <b>Purchase Order No</b><br>22359  | <b>Part Number</b>                    | <b>Ordered Qty</b><br>36.00 FT | <b>Invoice Qty</b><br>47.6667 FT  |                                   |
| <b>Details</b><br>ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY<br>ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S<br>FORWARD COPY OF P/S TO TRACY ( MONTREAL )<br>Email P/s and certs to: clavoie@artaero.com<br>END USER: DART AEROSPACE<br>END USE: COMMERCIAL AIRCRAFT PARTS<br>ECCN # EAR99 |                                       |                                |   |                                   |
| <b>Delivery No.</b><br>119464365   | <b>Mill</b><br>TALLEY<br>METALS, INC. | <b>Heat Number</b><br>743043   | <b>Mech Id</b><br>4   | <b>PCS</b><br>4                   |
|  |                                       |                                | <b>Width (IN)</b>   | <b>Length (IN)</b><br>143.0000    |
|  |                                       |                                |   | <b>Shipped Qty(LBS)</b><br>4.4807 |

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Reviewed by Authorized Castle Metals Representative:

Date:

Name:

These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to US law prohibited.

Date Printed: 03-JAN-2014 10:33:00 AM



# CERTIFICATE OF TESTS

CERT SERIAL# 000845106



**TALLEY METALS**  
A Carpenter Company

Talley Metals Technology, Inc.  
205 Talley Metals Lane  
McBee, SC. 29101 Tel: (610) 208-2000 (800) 338-4592

## ABNAHMEPRUEFZEUGNIS

## CERTIFICAT DE CONTROLE

- THE RECORDING OF FALSE, FICTICIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47.
- THE VALUES AND OTHER TECHNICAL DATA REPRESENT THE RESULTS OF ANALYSES AND TESTS MADE ON SAMPLES COLLECTED FROM THE TOTAL LOT. ORIGINAL DATA RECORDS CAN BE TRACED BY REFERENCE TO THE CARPENTER ORDER NUMBER.
- MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM, ALPHA AND GAMMA SOURCE CONTAMINATION.
- THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF CARPENTER TECHNOLOGY CORPORATION.

10/10/12

CUSTOMER / BESTELLER / CLIENT

A.M. CASTLE & CO

SELLER / VERKÄUFER / VENDEUR PAGE 1 OF 2

3400 N WOLF RD  
FRANKLIN PARK IL 60131

HVL

| CUSTOMER ORDER NO./BESTELL-NR./N° DE COMMANDE | CARPENTER NO./WERKS-NR./N° DE REFERENCE INTERNE | DATE/DATUM/DATE | WEIGHT/GEWICHT/POIDS |
|---|---|-----------------|----------------------|
| 168510-004                                    | W59502  | 10/10/12        | 3156.000             |

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE:

743043

UNS NUMBER S30300

PRODUCT DESCRIPTION: TYPE 303-00 ANNEALED COLD DRAWN  
----- PART NUMBER: IAC 4540

SPECIFICATION: CASTLE 3303-00 REV 20 (04/11/11)  
----- AMS 5640 REV U (10/ /07) TYPE I UNS# S30300  
ASTM-A484-11 AISI - 303  
ASTM-A582-05 TYPE 303

SIZE 0.187500 IN. ( 4.76 MM) RD BAR

PRIMARY HEAT CHEMISTRY(WT%): (TEST METHOD IS SHOWN IN PARENTHESIS)

|         |         |         |         |         |         |
|---------|---------|---------|---------|---------|---------|
| C (COM) | MN(XRF) | SI(XRF) | P (XRF) | S (COM) | CR(XRF) |
| 0.05    | 1.76    | 0.52    | 0.03    | 0.32    | 17.26   |
| NI(XRF) | MO(XRF) | CU(XRF) | N (FUS) |         |         |
| 8.60    | 0.35    | 0.37    | 0.037   |         |         |

NO WELD REPAIR.  
SOLUTION ANNEALED TO PROVIDE A MICROSTRUCTURE FREE FROM CONTINUOUS GRAIN  
BOUNDARY CARBIDE PRECIPITATION (NETWORK).  
MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM AND ALPHA SOURCE  
CONTAMINATION.

DISCS MACROETCHED AND APPROVED

|                                   |              |
|-----------------------------------|--------------|
| (T)RANSVERSE (L)ONGITUDINAL       |              |
| YIELD STRENGTH, (0.20 %) KSI(MPA) | 114.0 ( 786) |
| TENSILE STRENGTH, KSI(MPA)        | 127.0 ( 876) |
| ELONGATION IN 1.00", %            | 32.0         |
| REDUCTION OF AREA, %              | 34.0         |

HARDNESS AS SHIPPED 234HBW ( 99HRBW)

NO WELD REPAIR PERFORMED  
MATERIAL HAS BEEN MELTED AND MANUFACTURED IN THE USA WHICH IS A QUALIFYING  
COUNTRY TO DFARS REQUIREMENTS 252.225-7014 WITH ALTERNATE 1 FOR QUALIFYING  
COUNTRY 225.872.1, SUPERSEDED BY DFARS REQUIREMENTS DFARS 252.225-7008 AND  
252.225-7009.

CONTINUED ON NEXT PAGE

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CERTIFICATE OF TESTS  
CERT SERIAL# 000845106



**TALLEY METALS**  
A Carpenter Company

Talley Metals Technology, Inc.  
205 Talley Metals Lane  
McBee, SC. 29101 Tel: (610) 208-2000 (800) 338-4592

10/10/12

CUSTOMER/BESTELLER/CLIENT

A.M. CASTLE & CO

3400 N WOLF RD  
FRANKLIN PARK IL 60131

ABNAHMEPRUEFZEUGNIS

CERTIFICAT DE CONTROLE

- THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47.
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SELLER / VERKÄUFER / VENDEUR PAGE 2 OF 2

HVL

| CUSTOMER ORDER NO./BESTELL-NR./N° DE COMMANDE | CARPENTER NO./WERKS-NR./N° DE REFERENCE INTERNE | DATE/DATUM/DATE | WEIGHT/GEWICHT/POIDS |
|---|---|-----------------|----------------------|
| 168510-004                                    | W59502  | 10/10/12        | 3156.000             |

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE:

743043

UNS NUMBER S30300

THIS ORDER WAS MANUFACTURED IN ACCORDANCE WITH CARPENTER SPECIALTY ALLOYS OPERATIONS QUALITY PROGRAM MANUAL, REVISION 30 DATED 09/28/11.

WE HEREBY CERTIFY THAT THE ABOVE TEST DATA ARE IN ACCORDANCE WITH THE PURCHASE ORDER AND SPECIFICATION REQUIREMENTS. CERTIFICATE OF TEST IS PREPARED IN ACCORDANCE WITH PARAGRAPH 3.1 OF EN 10204(DIN50049)

TIMOTHY DUVAL  
QUALITY ASSURANCE REP.  
CARPENTER TECHNOLOGY CORPORATION

Castle Metals FP

HEAT NUMBER 743043  
MECHANICAL ID \_\_\_\_\_  
ITEM CODE 4540  
LOT NUMBER \_\_\_\_\_  
PO NUMBER 168510  
RECEIPT DATE 10/11/12  
SUPPLIER Talley  
SPECIFICATION \_\_\_\_\_  
LCS Nc  
COMMENT \_\_\_\_\_  
APPROVED BS

*Timothy M. Duval*

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A. M. Castle &amp; Co.

**PACKING SLIP/  
CERTIFICATE OF CONFORMANCE**

Page 1 of 1

Shipment No:1997508

|  |                         |  |   |  |
|--|-------------------------|--|---|--|
| <b>Ship From:</b><br>A. M. Castle & Co.<br>MONTREAL - CASTLE<br>METALS<br>835-SELKIRK AVENUE<br>POINTE CLAIRE, QUEBEC<br>H9R 3S2 |                         | <b>Sold To:</b><br>DART AEROSPACE LTD<br>1270 ABERDEEN<br>HAWKESBURY, ON K6A 1K7<br>CA | <b>Ship To:</b><br>DART AEROSPACE LTD<br>1270 ABERDEEN<br>HAWKESBURY, ON K6A<br>1K7 CAN | <b>Deliver To:</b><br>DART AEROSPACE LTD<br>1270 ABERDEEN<br>HAWKESBURY, ON<br>K6A 1K7<br>CA |
| <b>Date Shipped</b><br>03-JAN-2014   | <b>F.O.B.</b><br>ORIGIN | <b>Freight Terms</b><br>Prepaid  | <b>Carrier</b><br>MANITOULIN  | <b>BOL No</b><br>1997508-2   |

|                         |                                       |
|-------------------------|---------------------------------------|
| <b>Shipment Details</b> | <b>Final Destination Branch - MON</b> |
|-------------------------|---------------------------------------|

|   |   |                                |   |
|---|---|--------------------------------|---|
| <b>Order No</b><br>3144363  | <b>Line No</b><br>2                           | <b>Item No</b><br>4693         | <b>Description</b><br>1.2500.RD.303.STAINLESS.CF.ANN.132.0000-156.0000<br>SPECIFICATIONS: ASTM A582 |
| <b>Purchase Order No</b><br>22359   | <b>Part Number</b>                            | <b>Ordered Qty</b><br>36.00 FT | <b>Invoice Qty</b><br>36.2500 FT  |
| <b>Details</b><br>ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY<br>ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #S<br>FORWARD COPY OF P/S TO TRACY ( MONTREAL )<br>Email P/s and certs to: clavoie@artaero.com<br>END USER: DART AEROSPACE<br>END USE: COMMERCIAL AIRCRAFT PARTS<br>ECCN # EAR99 |   |                                |   |
| <b>Delivery No.</b><br>119463927  | <b>Mill</b><br>NORTH<br>AMERICAN<br>STAINLESS | <b>Heat Number</b><br>K3M5     | <b>Mech Id</b><br>PCS<br>3  |
|   |   | <b>Width (IN)</b>              | <b>Length (IN)</b><br>145.0000  |
|   |   |                                | <b>Shipped Qty(LBS)</b><br>152.0000   |

|   |             |
|---|-------------|
| These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.  |             |
| We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit. |             |
| Reviewed by Authorized Castle Metals Representative:  | Date: Name: |





NORTH AMERICAN  
STAINLESS

# METALLURGICAL TEST REPORT

6870 Highway 42 East  
Chent, KY 41045-9615  
(502) 347-6000

Certificate: 896202 29 Mail To: Ship To: Date: 12/04/2013 Page: 1 OF 1  
A.M. CASTLE AND COMPANY A.M. CASTLE AND COMPANY Steel: 303  
1420 KENSINGTON ROAD-SUITE 220 2400 NORTH WOLF ROAD Finish: Cold Finish  
OAK BROOK IL 60523 FRANKLIN PARK IL 60131 Dia/thk: 1.2500 in  
Customer: 0032 001 Leg Length: 144.00 in  
NAS Order: LP 10393 1 Item Code: 4593 Corrosion:  
Your Order: 249999

## PRODUCT DESCRIPTION:

Round Bar, Annealed, Smooth Turned, Cold Finished  
ASTM A582/12 EN 10204 3.1, ASTM A484/11  
AMS 5640U TYPE 1, QQS-764B CONDITION A  
SOLUTION ANNEAL TEMP 1900F MIN

## REMARKS:

COMPLIES W/REQUIREMENTS OF DEAR 252.225-7008 EU DIRECTIVE  
2011/65/EU, ROHS, EAF+AD+CC, NO WELD REPAIR, MELTED AND MFG  
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

8/4/107

| Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| BF88050       | 512           |               |               |               |               |               |               |               |               |

## CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

Chemical Analysis per ASTM A751/08

| Heat             | Supplier # | CM   | C % | CO %  | CR % | CU % | MN % | MO % | N %  | NI % | P %   | S % |
|------------------|------------|------|-----|-------|------|------|------|------|------|------|-------|-----|
| K3M5             | US         | .050 | .15 | 17.21 | .35  | 1.79 | .30  | .047 | 8.39 | .030 | .3590 |     |
| SI %             |            |      |     |       |      |      |      |      |      |      |       |     |
| .28              |            |      |     |       |      |      |      |      |      |      |       |     |
| Heat Number K3M5 |            |      |     |       |      |      |      |      |      |      |       |     |
| Mechanical ID    |            |      |     |       |      |      |      |      |      |      |       |     |
| ITEM CODE 4093   |            |      |     |       |      |      |      |      |      |      |       |     |

## MECHANICAL PROPERTIES

| 1 d                  | HB  | .2YS  | UTS   | RA    | Elong |       |
|----------------------|-----|-------|-------|-------|-------|-------|
| o i                  | No. | KSI   | KSI   | %     | % 4D  |       |
| BF88050              | RL  | 159.0 | 48.80 | 93.53 | 41.40 | 33.88 |
| LOT NUMBER 249999    |     |       |       |       |       |       |
| RECEIPT DATE 12-3-13 |     |       |       |       |       |       |
| SUPPLIER NAS         |     |       |       |       |       |       |
| SPECIFICATION        |     |       |       |       |       |       |
| LCS N                |     |       |       |       |       |       |
| COMMENT              |     |       |       |       |       |       |
| APPROVED             |     |       |       |       |       |       |
| Technical            |     |       |       |       |       |       |
| Dept. Mgr.           |     |       |       |       |       |       |

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS

ERIC HESS



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A. M. Castle &amp; Co.

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Page 1 of 1

Shipment No: 1997508

|  |                         |  |   |  |
|--|-------------------------|--|---|--|
| <b>Ship From:</b><br>A. M. Castle & Co.<br>MONTREAL - CASTLE<br>METALS<br>835-SELKIRK AVENUE<br>POINTE CLAIRE, QUEBEC<br>H9R 3S2 |                         | <b>Sold To:</b><br>DART AEROSPACE LTD<br>1270 ABERDEEN<br>HAWKESBURY, ON K6A 1K7<br>CA | <b>Ship To:</b><br>DART AEROSPACE LTD<br>1270 ABERDEEN<br>HAWKESBURY, ON K6A<br>1K7 CAN | <b>Deliver To:</b><br>DART AEROSPACE LTD<br>1270 ABERDEEN<br>HAWKESBURY, ON<br>K6A 1K7<br>CA |
| <b>Date Shipped</b><br>03-JAN-2014   | <b>F.O.B.</b><br>ORIGIN | <b>Freight Terms</b><br>Prepaid  | <b>Carrier</b><br>MANITOULIN  | <b>BOL No</b><br>1997508-2   |

|                         |                                       |
|-------------------------|---------------------------------------|
| <b>Shipment Details</b> | <b>Final Destination Branch - MON</b> |
|-------------------------|---------------------------------------|

| Order No          | Line No   | Item No     | Description  |             |            |             |                  |
|-------------------|---|-------------|--|-------------|------------|-------------|------------------|
| 3144363           | 3   | 15043       | 0.3750.RD.304/304L.STAINLESS.CF.ANN.132.0000-156.0000<br>SPECIFICATIONS: ASTM A276 |             |            |             |                  |
| Purchase Order No | Part Number   |             | Ordered Qty  | Invoice Qty |            |             |                  |
| 22359             |   |             | 24.00 FT   | 24.0000 FT  |            |             |                  |
| Details           | ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY<br>ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #S<br>FORWARD COPY OF P/S TO TRACY ( MONTREAL )<br>Email P/s and certs to: clavoie@artaero.com<br>END USER: DART AEROSPACE<br>END USE: COMMERCIAL AIRCRAFT PARTS<br>ECCN # EAR99 |             |  |             |            |             |                  |
| Delivery No.      | Mill  | Heat Number | Mech Id  | PCS         | Width (IN) | Length (IN) | Shipped Qty(LBS) |
| 119464365         | NORTH<br>AMERICAN<br>STAINLESS  | H8J1        |  | 2           |            | 144.0000    | 9.0240           |

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We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle &amp; Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Reviewed by Authorized Castle Metals Representative:

Date:

Name:

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Date Printed: 03-JAN-2014 10:33:00 AM



# METALLURGICAL TEST REPORT

6870 Highway 42 East  
Ghent, KY 41045-9615  
(502) 347-6000

|  |   |   |                                |
|--|---|---|--------------------------------|
| Certificate: 853162 04<br>Mail To:<br>A.M. CASTLE AND COMPANY<br>1420 REMINGTON ROAD-SUITE 220<br>OAK BROOK IL 60533                 | Ship To:<br>A.M. CASTLE AND COMPANY<br>3400 NORTH WOLF ROAD<br>FRANKLIN PARK IL 60131 | Customer: 0032 001<br>LP 2168 1<br>Item Code: 15043 | Your Order: 225609<br>Remarks: |
| Date: 7/16/2013<br>Steel: 304/304L<br>Cold Draw<br>Finish: .3750 in<br>Leg Length: 144.00 in<br>Corrosion: ASTM A262-10 Pract A/E OK |   |   |                                |

PRODUCT DESCRIPTION:

ASTM A193/10A-ASME SA193/10 CL 1 GR B8  
GRAIN SIZE- 4-6  
Round Bar, Annealed, Cold Draw  
UNS 30400/30403 EN 10204 3.1, ASTM A484/11  
ASTM A276/10, ASTM A479/11, ASTM A182/10 CHEM ONLY,  
ASME SA479/10A, ASME SA182/10 CHEM ONLY  
AMS 5639H, AMS 5647T, AMS Q08-763H, Q08-763Z, ASTM F899/11  
SOLUTION ANNEAL TEMP 1900F MIN, ASTM A320/08 CL 1 GR B8

[illegible]

CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

[illegible]

## MECHANICAL PROPERTIES

[illegible]

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical  
Dept. Mgr.

---

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A. M. Castle &amp; Co.

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Page 1 of 2

Shipment No: 1997508

|  |  |  |  |   |  |   |  |                            |  |
|--|--|--|--|---|--|---|--|----------------------------|--|
| <b>Ship From:</b><br>A. M. Castle & Co.<br>MONTREAL - CASTLE<br>METALS<br>835-SELKIRK AVENUE<br>POINTE CLAIRE, QUEBEC<br>H9R 3S2   |  | <b>Sold To:</b><br>DART AEROSPACE LTD<br>1270 ABERDEEN<br>HAWKESBURY, ON K6A 1K7<br>CA |  | <b>Ship To:</b><br>DART AEROSPACE LTD<br>1270 ABERDEEN<br>HAWKESBURY, ON K6A<br>1K7 CAN |  | <b>Deliver To:</b><br>DART AEROSPACE LTD<br>1270 ABERDEEN<br>HAWKESBURY, ON<br>K6A 1K7<br>CA  |  |                            |  |
| <b>Date Shipped</b><br>03-JAN-2014   |  | <b>F.O.B.</b><br>ORIGIN  |  | <b>Freight Terms</b><br>Prepaid   |  | <b>Carrier</b><br>MANITOULIN  |  | <b>BOL No</b><br>1997508-2 |  |
| <b>Shipment Details</b>  |  |  |  |   |  |   |  |                            |  |
| <b>Final Destination Branch - MON</b>  |  |  |  |   |  |   |  |                            |  |
| <b>Order No</b><br>3153119   |  | <b>Line No</b><br>1  |  | <b>Item No</b><br>752241.MO   |  | <b>Description</b><br>2.5000.PL.7075.T7351.ALUMINUM.USI.48.5000.144.5000<br>CUT 2SIDED TO 3.25 IN ( + .0620/- .0000 IN) X 72 IN ( + .2500/-<br>.2500 IN) - ALUMINUM PLATE SAW SPECIFICATIONS:<br>AMS-QQ-A-250/12<br>ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST<br>RECEIVE AT TIME OF DELIVERY<br>ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT<br>#S<br>FORWARD COPY OF P/S TO TRACY ( MONTREAL )<br>Email P/s and certs to: clavole@artaero.com |  |                            |  |
| <b>Purchase Order No</b><br>22359  |  | <b>Part Number</b>   |  | <b>Ordered Qty</b><br>2.00 PCS  |  | <b>Invoice Qty</b><br>2.00 PCS  |  |                            |  |
| <b>Details</b><br>ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY<br>ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #S<br>FORWARD COPY OF P/S TO TRACY ( MONTREAL )<br>Email P/s and certs to: clavole@artaero.com<br>CUSTOMS BROKER: GEORGE H. YOUNG<br>END USER: DART AEROSPACE<br>END USE: COMMERCIAL AIRCRAFT PARTS<br>ECCN # EAR99 |  |  |  |   |  |   |  |                            |  |
| <b>Delivery No.</b>  |  | <b>Mill</b>  |  | <b>Heat Number</b>  |  | <b>Mech Id</b>  |  | <b>PCS</b>                 |  |
|  |  |  |  |   |  | <b>Width (IN)</b>   |  | <b>Length (IN)</b>         |  |
|  |  |  |  |   |  |   |  | <b>Shipped Qty(LBS)</b>    |  |

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Page 2 of 2

|           |                    |          |   |          |
|-----------|--------------------|----------|---|----------|
| 119468527 | KAISER<br>ALUMINUM | 658321A5 | 2 | 121.0061 |
|-----------|--------------------|----------|---|----------|

|   |             |
|---|-------------|
| These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.  |             |
| We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit. |             |
| Reviewed by Authorized Castle Metals Representative:  | Date: Name: |



|  |
|--|
| <b>SHIP TO:</b><br>A M CASTLE & CO<br>3050 SOUTH HYDRAULIC<br>WICHITA, KS 67216                      |
| <b>SOLD TO:</b><br>AM CASTLE & CO- SOLD TO<br>1420 KENSINGTON RD<br>SUITE 220<br>OAK BROOK, IL 60523 |

**KAISER**  
**ALUMINUM**  
 Trentwood Works - Spokane, WA 99215  
 Phone: (800) 367-2586

## CERTIFIED TEST REPORT

Serial Number  
 4311155

|                               |                         |                          |                                     |   |                  |  |  |                        |  |
|-------------------------------|-------------------------|--------------------------|-------------------------------------|---|------------------|--|--|------------------------|--|
| CUSTOMER PO NUMBER:<br>236382 |                         | WORK PACKAGE:            |                                     | CUSTOMER PART NUMBER:<br>752241             |                  | SHIP RUN/LOAD:<br>102746/11                  |  | GOV'T CONTRACT NUMBER: |  |
| KAISER ORDER NO:<br>1157843   | LINE ITEM:<br>1         | SHIP DATE:<br>1-OCT-2013 | ALLOY:<br>7075                      | CLAD:<br>BARE                               | TEMPER:<br>T7351 | PRODUCT DESCRIPTION:<br>Kaiser Select® Plate |  |                        |  |
| WEIGHT SHIPPED:<br>3588 LB    | QUANTITY:<br>2 PCS EST. | TRUCK B/L #:<br>2044229  | GAUGE:<br>2.5000 IN<br>(63.5000 MM) | DIAMETER/WIDTH:<br>48.500 IN<br>(1231.9 MM) |                  | LENGTH:<br>144.500 IN<br>(3670.3 MM)         |  |                        |  |

MHU 1719596: LOT 658321A5: 2 pieces;

### Certified Specifications

AMS 4078/RevJ  
 ASTM B 209/Rev10  
 BSS 7055/RevA  
 DPS 4.713/RevAK  
 GSS16100/RevG/Amd1

AMS-QQ-A-250/12  
 ASTM B 594/Rev09  
 CMMP 025/RevU  
 EAC MS1011/RevE  
 MMS 159/RevT

AMS-STD-2154/RevA  
 BAC 5439/RevH  
 CSTI 006/RevE  
 GAMPS 9101/RevB  
 PS 21211/RevL

Test Code: 4297

### Test Results

Lot: 658321A5 Cast 559 Drop 16 Ingot 4 Melted in USA

(ASTM E8/B557)  
 (EN 2002-1)

|          |        |                  |                            |                            |              |
|----------|--------|------------------|----------------------------|----------------------------|--------------|
| Tensile: | Temper | Dir / # Tests    | Ultimate KSI (MPA)         | Yield KSI (MPA)            | Elongation % |
|          | T7351  | LT / 2 (Min:Max) | 71.1 : 71.8<br>(490 : 495) | 59.1 : 59.8<br>(407 : 412) | 11.7 : 11.8  |

(ASTM E1004)  
 (EN 2004-1)

|                      |          |          |
|----------------------|----------|----------|
| Conductivity %IACS : | 41.0 Min | 41.2 Max |
| (MS/M) :             | 23.8 Min | 23.9 Max |

(ASTM E1251)

|             |      |      |     |      |     |      |     |      |      |      |          |
|-------------|------|------|-----|------|-----|------|-----|------|------|------|----------|
| Chemistry:  | SI   | FE   | CU  | MN   | MG  | CR   | ZN  | TI   | V    | ZR   | OTHER    |
| Actual(wt%) | 0.06 | 0.19 | 1.5 | 0.02 | 2.5 | 0.20 | 5.8 | 0.03 | 0.01 | 0.01 | TOT 0.05 |



# KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215  
Phone: (800) 367-2586

## CERTIFIED TEST REPORT

Serial Number  
4311155

### ALLOY LIMITS

|          | SI   | FE   | CU  | MN   | MG  | CR   | ZN  | TI   | V    | ZR   | OTHER | MAX  |
|----------|------|------|-----|------|-----|------|-----|------|------|------|-------|------|
| 7075     |      |      |     |      |     |      |     |      |      |      |       |      |
| MIN(wt%) | 0.00 | 0.00 | 1.2 | 0.00 | 2.1 | 0.18 | 5.1 | 0.00 | 0.00 | 0.00 | EACH  | 0.05 |
| MAX(wt%) | 0.40 | 0.50 | 2.0 | 0.30 | 2.9 | 0.28 | 6.1 | 0.20 | 0.05 | 0.05 | TOT   | 0.15 |

### Aluminum Remainder

### TEST NOTES

Metal represented by this test report was 100% immersion ultrasonically tested from one side with 3mm dead zones top and bottom and meets the Class A and Class B requirements of all specifications referenced on this test report. No surface marking of sonic indications is performed.

### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC (Kaiser) hereby certifies that metal shipped under this order was melted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content. This material has been inspected, tested and found in conformance with the requirements of the applicable specifications as indicated herein. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements. All metal which is solution heat treated complies with AMS 2772. Any warranty is limited to that shown on Kaiser's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of Kaiser Aluminum Fabricated Products, LLC laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law. ISO-9001:2000 certified.

*James Hemenway*

JAMES HEMENWAY, LABORATORIES SUPERVISOR





**Castle Metals®**

A. M. Castle &amp; Co.

PACKING SLIP/  
CERTIFICATE OF CONFORMANCE

Page 1 of 1

Shipment No: 1997508

|  |                         |  |   |  |
|--|-------------------------|--|---|--|
| <b>Ship From:</b><br>A. M. Castle & Co.<br>MONTREAL - CASTLE<br>METALS<br>835-SELKIRK AVENUE<br>POINTE CLAIRE, QUEBEC<br>H9R 3S2 |                         | <b>Sold To:</b><br>DART AEROSPACE LTD<br>1270 ABERDEEN<br>HAWKESBURY, ON K6A 1K7<br>CA | <b>Ship To:</b><br>DART AEROSPACE LTD<br>1270 ABERDEEN<br>HAWKESBURY, ON K6A<br>1K7 CAN | <b>Deliver To:</b><br>DART AEROSPACE LTD<br>1270 ABERDEEN<br>HAWKESBURY, ON<br>K6A 1K7<br>CA |
| <b>Date Shipped</b><br>03-JAN-2014   | <b>F.O.B.</b><br>ORIGIN | <b>Freight Terms</b><br>Prepaid  | <b>Carrier</b><br>MANITOULIN  | <b>BOL No</b><br>1997508-2   |

|                         |                                       |
|-------------------------|---------------------------------------|
| <b>Shipment Details</b> | <b>Final Destination Branch - MON</b> |
|-------------------------|---------------------------------------|

|                                   |                     |                                |  |
|-----------------------------------|---------------------|--------------------------------|--|
| <b>Order No</b><br>3144363        | <b>Line No</b><br>4 | <b>Item No</b><br>14828        | <b>Description</b><br>1.0000.RD.304/304L.STAINLESS.CF.ANN.132.0000-156.0000<br>SPECIFICATIONS: ASTM A276 |
| <b>Purchase Order No</b><br>22359 | <b>Part Number</b>  | <b>Ordered Qty</b><br>24.00 FT | <b>Invoice Qty</b><br>24.0000 FT   |

**Details** ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY

ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #S

FORWARD COPY OF P/S TO TRACY ( MONTREAL )

Email P/s and certs to: clavoie@dataero.com

END USER: DART AEROSPACE

END USE: COMMERCIAL AIRCRAFT PARTS

ECCN # EAR99

|                                  |   |                            |                |                 |                   |                                |                                    |
|----------------------------------|---|----------------------------|----------------|-----------------|-------------------|--------------------------------|------------------------------------|
| <b>Delivery No.</b><br>119464723 | <b>Mill</b><br>NORTH<br>AMERICAN<br>STAINLESS | <b>Heat Number</b><br>J4N0 | <b>Mech Id</b> | <b>PCS</b><br>2 | <b>Width (IN)</b> | <b>Length (IN)</b><br>144.0000 | <b>Shipped Qty(LBS)</b><br>67.0000 |
|----------------------------------|---|----------------------------|----------------|-----------------|-------------------|--------------------------------|------------------------------------|

These commodities/technologies are subject to US Export Administration &amp; US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle &amp; Co. within 60 days of the shipment. Material not to the correct size, or material cut by the customer cannot be returned for credit.

Reviewed by Authorized Castle Metals Representative:

Date: Name:

These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to US law prohibited.  
Date Printed: 03-JAN-2014 10:33:00 AM





NORTH AMERICAN  
STAINLESS

## METALLURGICAL TEST REPORT

6870 Highway 42 East  
Chert KY 41045-9615  
(502) 347-6000

Certificate: 871445 04 Mail To: Ship To: Date: 9/18/2013 Page: 1 Of 1  
A.M. CASTLE AND COMPANY A.M. CASTLE AND COMPANY Steel: 304/304L  
1420 KENNEDY ROAD-SUITE 220 3400 NORTH WOLF ROAD Finish: Cold Draw  
OAK BROOK IL 60523 FRANKLIN PARK IL 60131 Dia/Thk: 1.0000 in  
Customer: 0032 001 Leg Length: 144.00 in  
NAS Order: LP 4784 1 Item Code: 14828 Corrosion: ASTM A262-10 Prac A/E OK  
Your Order: 233195

### PRODUCT DESCRIPTION:

ASTM A193/10a-ASME SA193/10 CL 1 GR B8  
GRAIN SIZE= 4-6  
Round Bar, Annealed, Cold Draw  
UNS 30400/30403 EN 10204 3.1, ASTM A484/11  
ASTM A276/10, ASTM A479/13a, ASTM A182/10 CHEM ONLY,  
ASME SA479/10a, ASME SA182/10 CHEM ONLY  
AMS 5639H, AMS 5647J, AMS QQS-763B, QQS-763F, ASTM F899/11  
SOLUTION ANNEAL TEMP 1900F MIN, ASTM A320/08 CL 1 GR B8

### REMARKS:

COMPLIES W/REQUIREMENTS OF DPAF 252.225-7014A-1 EU DIRECTIVE  
2011/65/EU. ROHS. EAF-AOD-CC. NO WELD REPAIR. MELTED AND MFG  
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

5/4/107

| Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| BF70773       | 4347          |               |               |               |               |               |               |               |               |

### CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan) Chemical Analysis per ASTM A751/08

| Heat | Supplier # | CM | C %  | CO % | CR %  | CU % | MN % | MO % | N %  | NI % | P %  | S %   |
|------|------------|----|------|------|-------|------|------|------|------|------|------|-------|
| J4N0 |            | US | .016 | .29  | 18.05 | .44  | 1.43 | .38  | .077 | 8.55 | .031 | .0225 |
|      |            |    | SI % |      |       |      |      |      |      |      |      |       |
|      |            |    | .24  |      |       |      |      |      |      |      |      |       |

Castle Metals EP

J4N0

HEAT NUMBER

MECHANICAL ID

ITEM CODE

LOG NUMBER

PO NUMBER

RECEIPT DATE

SUPPLIER

SPECIFICATION

LCS

COMMENT

APPROVED

### MECHANICAL PROPERTIES

| 1 d     | HB  | .2YS  | UTS   | RA     | %     | ELONG | % 4D |
|---------|-----|-------|-------|--------|-------|-------|------|
| 0 1     | No. | KSI   | KSI   |        |       |       |      |
| BF70773 | RL  | 222.0 | 95.00 | 106.00 | 52.00 | 41.00 |      |

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS

Technical  
Dept. Mgr.

ERIC HESS



**Castle Metals®**

A. M. Castle &amp; Co.

PACKING SLIP/  
CERTIFICATE OF CONFORMANCE

Page 1 of 1

Shipment No:1997508

|  |                         |  |   |  |
|--|-------------------------|--|---|--|
| <b>Ship From:</b><br>A. M. Castle & Co.<br>MONTREAL - CASTLE<br>METALS<br>835-SELKIRK AVENUE<br>POINTE CLAIRE, QUEBEC<br>H9R 3S2 |                         | <b>Sold To:</b><br>DART AEROSPACE LTD<br>1270 ABERDEEN<br>HAWKESBURY, ON K6A 1K7<br>CA | <b>Ship To:</b><br>DART AEROSPACE LTD<br>1270 ABERDEEN<br>HAWKESBURY, ON K6A<br>1K7 CAN | <b>Deliver To:</b><br>DART AEROSPACE LTD<br>1270 ABERDEEN<br>HAWKESBURY, ON<br>K6A 1K7<br>CA |
| <b>Date Shipped</b><br>03-JAN-2014   | <b>F.O.B.</b><br>ORIGIN | <b>Freight Terms</b><br>Prepaid  | <b>Carrier</b><br>MANITOULIN  | <b>BOL No</b><br>1997508-2   |

|                         |                                       |
|-------------------------|---------------------------------------|
| <b>Shipment Details</b> | <b>Final Destination Branch - MON</b> |
|-------------------------|---------------------------------------|

|                                   |  |                                |   |                                     |
|-----------------------------------|--|--------------------------------|---|-------------------------------------|
| <b>Order No</b><br>3144363        | <b>Line No</b><br>2  | <b>Item No</b><br>4693         | <b>Description</b><br>1.2500.RD.303.STAINLESS.CF.ANN.132.0000-156.0000<br>SPECIFICATIONS: ASTM A582 |                                     |
| <b>Purchase Order No</b><br>22359 | <b>Part Number</b>   | <b>Ordered Qty</b><br>36.00 FT | <b>Invoice Qty</b><br>36.2500 FT  |                                     |
| <b>Details</b>                    | ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY<br>ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #S<br>FORWARD COPY OF P/S TO TRACY ( MONTREAL )<br>Email P/s and certs to: clavoie@dartaero.com<br>END USER: DART AEROSPACE<br>END USE: COMMERCIAL AIRCRAFT PARTS<br>ECCN # EAR99 |                                |   |                                     |
| <b>Delivery No.</b><br>119463927  | <b>Mill</b><br>NORTH<br>AMERICAN<br>STAINLESS  | <b>Heat Number</b><br>K3M5     | <b>Mech Id</b>  | <b>PCS</b><br>3                     |
|                                   |  |                                | <b>Width (IN)</b>   | <b>Length (IN)</b><br>145.0000      |
|                                   |  |                                |   | <b>Shipped Qty(LBS)</b><br>152.0000 |

These commodities/technologies are subject to US Export Administration &amp; US State Dept. Regulations and, if intended for export, were/are exported hereunder. Diversion contrary to US Law is Prohibited.

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle &amp; Co. within 60 days of the shipment. Material out to the correct size, or material out by the customer cannot be returned for credit.

Reviewed by Authorized Castle Metals Representative:

Date:

Name:

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Date Printed: 03-JAN-2014 10:33:00 AM





**NAS** NORTH AMERICAN  
STAINLESS

## METALLURGICAL TEST REPORT

6870 Highway 42 East  
Chent, KY 41045-9615  
(502) 347-6000

Certificate: 896202 29    Mail To:    Ship To:    Date: 12/04/2013    Page: 1 Of 1  
A.M. CASTLE AND COMPANY    A.M. CASTLE AND COMPANY    Steel: 303  
1420 KENSINGTON ROAD-SUITE 220    3400 NORTH WOLF ROAD    Finish: Cold Finish  
OAK BROOK    IL 60523    FRANKLIN PARK    IL 60131    Dia/Tbk: 1.2500 in  
Customer: 0032 001    Leg Length: 144.00 in  
NAS Order: LP 10393 1    Length: 144.00 in  
Your Order: 249999    Item Code: 4593    Corrosion:

### PRODUCT DESCRIPTION:

Round Bar, Annealed, Smooth Turned, Cold Finished  
ASTM A582/12 EN 10204 3.1, ASTM A484/11  
AMS 5640U TYPE 1, Q38-764B CONDITION A  
SOLUTION ANNEAL TEMP 1900F MIN

### REMARKS:

COMPLIES W/REQUIREMENTS OF DPAF 252.225-7008 EU DIRECTIVE  
2011/65/EU. ROHS. EAF+AOD+CC. NO WELD REPAIR. WELDED AND MPG  
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

| Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| BF88050       | 512           |               |               |               |               |               |               |               |               |

### CHEMICAL ANALYSIS

CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan) Chemical Analysis per ASTM A751/08

| Heat             | Supplier # | CM | C %  | CO % | CR %  | CU % | MM % | MO % | N %  | NI % | P %  | S %   |
|------------------|------------|----|------|------|-------|------|------|------|------|------|------|-------|
| K3M5             | US         |    | .050 | .15  | 17.21 | .35  | 1.79 | .30  | .047 | 8.39 | .030 | .3590 |
| SEI %            |            |    |      |      |       |      |      |      |      |      |      |       |
| .28              |            |    |      |      |       |      |      |      |      |      |      |       |
| Heat Number K3M5 |            |    |      |      |       |      |      |      |      |      |      |       |
| MECHANICAL ID    |            |    |      |      |       |      |      |      |      |      |      |       |
| ITEM CODE        |            |    |      |      |       |      |      |      |      |      |      |       |
| LOT NUMBER       |            |    |      |      |       |      |      |      |      |      |      |       |
| PO NUMBER        |            |    |      |      |       |      |      |      |      |      |      |       |
| RECEIPT DATE     |            |    |      |      |       |      |      |      |      |      |      |       |
| SUPPLIER         |            |    |      |      |       |      |      |      |      |      |      |       |
| SPECIFICATION    |            |    |      |      |       |      |      |      |      |      |      |       |
| LCS              |            |    |      |      |       |      |      |      |      |      |      |       |
| COMMENT          |            |    |      |      |       |      |      |      |      |      |      |       |
| APPROVED         |            |    |      |      |       |      |      |      |      |      |      |       |
| Technical        |            |    |      |      |       |      |      |      |      |      |      |       |
| Dept. Mgr.       |            |    |      |      |       |      |      |      |      |      |      |       |

### MECHANICAL PROPERTIES

| 1 d     | HB  | .2YS  | UTS   | RA    | %     | Elong | % 4D |
|---------|-----|-------|-------|-------|-------|-------|------|
| o i     | No. | KSI   | KSI   |       |       |       |      |
| BF88050 | R L | 159.0 | 48.80 | 93.53 | 41.40 | 33.88 |      |

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS

ERIC HESS



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A. M. Castle &amp; Co.

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Page 1 of 1

Shipment No: 1997508

|  |  |  |  |  |  |  |  |                                   |  |
|--|--|--|--|--|--|--|--|-----------------------------------|--|
| <b>Ship From:</b><br>A. M. Castle & Co.<br>MONTREAL - CASTLE<br>METALS<br>835-SELKIRK AVENUE<br>POINTE CLAIRE, QUEBEC<br>H9R 3S2   |  | <b>Sold To:</b><br>DART AEROSPACE LTD<br>1270 ABERDEEN<br>HAWKESBURY, ON K6A 1K7<br>CA |  | <b>Ship To:</b><br>DART AEROSPACE LTD<br>1270 ABERDEEN<br>HAWKESBURY, ON K6A<br>1K7 CAN                  |  | <b>Deliver To:</b><br>DART AEROSPACE LTD<br>1270 ABERDEEN<br>HAWKESBURY, ON<br>K6A 1K7<br>CA |  |                                   |  |
| <b>Date Shipped</b><br>03-JAN-2014   |  | <b>F.O.B.</b><br>ORIGIN  |  | <b>Freight Terms</b><br>Prepaid  |  | <b>Carrier</b><br>MANITOULIN   |  | <b>BOL No</b><br>1997508-2        |  |
| <b>Shipment Details</b>  |  |  |  |  |  |  |  |                                   |  |
| Final Destination Branch - MON   |  |  |  |  |  |  |  |                                   |  |
| <b>Order No</b><br>3144363   |  |  |  |  |  |  |  |                                   |  |
| <b>Line No</b><br>3  |  | <b>Item No</b><br>15043  |  | <b>Description</b><br>0.3750.RD.304/304L.STAINLESS.CF.ANN.132.0000-156.0000<br>SPECIFICATIONS: ASTM A276 |  |  |  |                                   |  |
| <b>Purchase Order No</b><br>22359  |  | <b>Part Number</b>   |  | <b>Ordered Qty</b><br>24.00 FT   |  | <b>Invoice Qty</b><br>24.0000 FT   |  |                                   |  |
| <b>Details</b><br>ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY<br>ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #S<br>FORWARD COPY OF P/S TO TRACY ( MONTREAL )<br>Email P/s and certs to: clavoie@artaero.com<br>END USER: DART AEROSPACE<br>END USE: COMMERCIAL AIRCRAFT PARTS<br>ECCN # EAR99  |  |  |  |  |  |  |  |                                   |  |
| <b>Delivery No.</b><br>119464365   |  | <b>Mill</b><br>NORTH<br>AMERICAN<br>STAINLESS  |  | <b>Heat Number</b><br>H8J1   |  | <b>Mech Id</b>   |  | <b>PCS</b><br>2                   |  |
|  |  |  |  |  |  | <b>Width (IN)</b>  |  | <b>Length (IN)</b><br>144.0000    |  |
|  |  |  |  |  |  |  |  | <b>Shipped Qty(LBS)</b><br>9.0240 |  |
| <small>These commodities/technologies are subject to US Export Administration &amp; US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.</small>  |  |  |  |  |  |  |  |                                   |  |
| <small>We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle &amp; Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.</small> |  |  |  |  |  |  |  |                                   |  |
| <small>Reviewed by Authorized Castle Metals Representative:</small>  |  |  |  |  |  |  |  |                                   |  |
|  |  |  |  |  |  |  |  | <b>Date:</b>                      |  |
|  |  |  |  |  |  |  |  | <b>Name:</b>                      |  |

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Date Printed: 03-JAN-2014 10:33:00 AM





## METALLURGICAL TEST REPORT

6870 Highway 42 East  
Ghent, KY 41045-9615  
(502) 347-6000

Certificate: 853162 04      Mail To: A.M. CASTLE AND COMPANY      Ship To: A.M. CASTLE AND COMPANY      Date: 7/16/2013      Page: 1 of 1  
1420 KENSINGTON ROAD-SUITE 220      3400 NORTH WOLF ROAD  
OAK BROOK      IL 60523      FRANKLIN PARK      IL 60131  
Customer: 0032 001      NAS Order: LP 2168 1      Your Order: 225609      Item Code: 15043  
Steel: 304/304L  
Finish: Cold Draw  
Dia/Thk: .3750 in  
Leg Length: 144.00 in  
Corrosion: ASTM A262-10 Pract A/E OK

### PRODUCT DESCRIPTION:

ASTM A193/10a-ASME SA193/10 CL 1 GR B6  
GRAIN SIZE- 4-5  
Round Bar, Annealed, Cold Draw  
UNS 30400/30403 EN 10204 3.1, ASTM A484/11  
ASTM A276/10, ASTM A479/11, ASTM A182/10 CHEM ONLY,  
ASME SA479/10a, ASME SA182/10 CHEM ONLY  
AMS 5639H, AMS 5647J, AMS QQ8-763B, QQ8-763P, ASTM F899/11  
SOLUTION ANNEAL TEMP 1900F MIN, ASTM A320/08 CL 1 GR B8

### REMARKS:

COMPLIES W/REQUIREMENTS OF DFAR 252.225-7014A-1 EU DIRECTIVE  
2011/65/EU. ROHS. EAF+AOD+CC. NO WELD REPAIR. MELTED AND MFG  
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

| Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| BF56063       | 2800          |               |               |               |               |               |               |               |               |


### CHEMICAL ANALYSIS

CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan) Chemical Analysis per ASTM A751/08

| Heat                | Supplier # | CH | C %  | CO % | CR %  | CU % | MN % | MO % | N %  | NI % | P %  | S %   |
|---------------------|------------|----|------|------|-------|------|------|------|------|------|------|-------|
| H8J1                |            | US | .017 | .20  | 16.20 | .32  | 1.47 | .20  | .074 | 8.62 | .027 | .0205 |
| Cyclic Interiors PP |            |    |      |      |       |      |      |      |      |      |      |       |
| HEAT NUMBER 11251   |            |    |      |      |       |      |      |      |      |      |      |       |
| MECHANICAL ID       |            |    |      |      |       |      |      |      |      |      |      |       |
| ITEM CODE 15043     |            |    |      |      |       |      |      |      |      |      |      |       |

### MECHANICAL PROPERTIES

| MECHANICAL PROPERTIES |     |       |       |        |       |       |
|-----------------------|-----|-------|-------|--------|-------|-------|
| 1 d                   | HB  | .2YS  | UTS   | RA     | Elong |       |
| o l                   | No. | KSI   | KSI   | %      | % 2"  |       |
| S F                   |     |       |       |        |       |       |
| BF56063               | R L | 222.0 | 80.85 | 103.51 | 73.38 | 50.63 |

|               |   |
|---------------|---|
| LOT NUMBER    | 225609  |
| PO NUMBER     |   |
| RECEIPT DATE  | 7-17-13   |
| SUPPLIER      | NAS   |
| SPECIFICATION |   |
| LCS           | 5   |
| COMMENT       |   |
| APPROVED      |  |

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS

Technical  
Dept. Mgr.

ERIC HESS



**Castle Metals®**

A. M. Castle &amp; Co.

PACKING SLIP/  
CERTIFICATE OF CONFORMANCE

Page 1 of 1

Shipment No: 1997508

|   |                                       |  |   |   |                   |  |                                   |
|---|---------------------------------------|--|---|---|-------------------|--|-----------------------------------|
| <b>Ship From:</b><br>A. M. Castle & Co.<br>MONTREAL - CASTLE<br>METALS<br>835-SELKIRK AVENUE<br>POINTE CLAIRE, QUEBEC<br>H9R 3S2  |                                       | <b>Sold To:</b><br>DART AEROSPACE LTD<br>1270 ABERDEEN<br>HAWKESBURY, ON K6A 1K7<br>CA |   | <b>Ship To:</b><br>DART AEROSPACE LTD<br>1270 ABERDEEN<br>HAWKESBURY, ON K6A<br>1K7 CAN |                   | <b>Deliver To:</b><br>DART AEROSPACE LTD<br>1270 ABERDEEN<br>HAWKESBURY, ON<br>K6A 1K7<br>CA |                                   |
| <b>Date Shipped</b><br>03-JAN-2014  | <b>F.O.B.</b><br>ORIGIN               | <b>Freight Terms</b><br>Prepaid  | <b>Carrier</b><br>MANITOULIN  | <b>BOL No</b><br>1997508-2  |                   |  |                                   |
| <b>Shipment Details</b>   |                                       |  |   |   |                   |  |                                   |
| Final Destination Branch - MON  |                                       |  |   |   |                   |  |                                   |
| <b>Order No</b><br>3144363  | <b>Line No</b><br>1                   | <b>Item No</b><br>4540   | <b>Description</b><br>0.1875.RD.303.STAINLESS.CD.ANN.132.0000-156.0000<br>SPECIFICATIONS: ASTM A582 |   |                   |  |                                   |
| <b>Purchase Order No</b><br>22359   | <b>Part Number</b>                    |  | <b>Ordered Qty</b><br>36.00 FT  | <b>Invoice Qty</b><br>47.6667 FT  |                   |  |                                   |
| <b>Details</b><br>ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY<br>ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S<br>FORWARD COPY OF P/S TO TRACY ( MONTREAL )<br>Email P/s and certs to: clavote@dartaero.com<br>END USER: DART AEROSPACE<br>END USE: COMMERCIAL AIRCRAFT PARTS<br>ECCN # EAR99 |                                       |  |   |   |                   |  |                                   |
| <b>Delivery No.</b><br>119464365  | <b>Mill</b><br>TALLEY<br>METALS, INC. | <b>Heat Number</b><br>743043   | <b>Mech Id</b>  | <b>PCS</b><br>4   | <b>Width (IN)</b> | <b>Length (IN)</b><br>143.0000   | <b>Shipped Qty(LBS)</b><br>4.4807 |

These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Reviewed by Authorized Castle Metals Representative: \_\_\_\_\_ Date: \_\_\_\_\_ Name: \_\_\_\_\_



# CERTIFICATE OF TESTS

CERT SERIAL# 000845106



**TALLEY METALS**  
A Carpenter Company

Talley Metals Technology, Inc.  
205 Talley Metals Lane  
McBee, SC. 29101 Tel: (610) 208-2000 (800) 338-4592

# ABNAHMEPRUEFZEUGNIS

# CERTIFICAT DE CONTROLE

- THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47.
- THE VALUES AND OTHER TECHNICAL DATA REPRESENT THE RESULTS OF ANALYSES AND TESTS MADE ON SAMPLES COLLECTED FROM THE TOTAL LOT. ORIGINAL DATA RECORDS CAN BE TRACED BY REFERENCE TO THE CARPENTER ORDER NUMBER.
- MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM, ALPHA AND GAMMA SOURCE CONTAMINATION.
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10/10/12  
CUSTOMER/RESELLER/CLIENT

SELLER/VERKÄUFER/VENDEURPAGE 2 OF 2

A.M. CASTLE & CO

3400 N WOLF RD  
FRANKLIN PARK IL 60131

HVL

| CUSTOMER ORDER NO./BESTELL-NR./N° DE COMMANDE | CARPENTER NO./WERKS-NR./N° DE REFERENCE INTERNE | DATE/DATUM/DATE | WEIGHT/GEWICHT/POIDS |
|---|---|-----------------|----------------------|
| 168510-004                                    | W59502  | 10/10/12        | 3156.000             |

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE: 743043 UNS NUMBER S30300  
THIS ORDER WAS MANUFACTURED IN ACCORDANCE WITH CARPENTER SPECIALTY ALLOYS  
OPERATIONS QUALITY PROGRAM MANUAL, REVISION 30 DATED 09/28/11.

WE HEREBY CERTIFY THAT THE ABOVE TEST DATA ARE IN ACCORDANCE WITH THE  
PURCHASE ORDER AND SPECIFICATION REQUIREMENTS. CERTIFICATE OF TEST IS  
PREPARED IN ACCORDANCE WITH PARAGRAPH 3.1 OF EN 10204(DIN50049)

TIMOTHY DUVAL  
QUALITY ASSURANCE REP.  
CARPENTER TECHNOLOGY CORPORATION

Castle Metals FP

HEAT NUMBER 743043  
MECHANICAL ID  
ITEM CODE 4540  
LOT NUMBER  
PO NUMBER 168510  
RECEIPT DATE 10/10/12  
CARRIER Talley  
SPECIFICATION  
LCS No  
COMMENT  
APPROVED B.J.

Timothy M. Duval

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# CERTIFICATE OF TESTS

CERT SERIAL# 000845106



**TALLEY METALS**  
A Carpenter Company

Talley Metals Technology, Inc.  
205 Talley Metals Lane  
McBee, SC. 29101 Tel: (610) 208-2000 (800) 338-4592

## ABNAHMEPRUEFZEUGNIS

## CERTIFICAT DE CONTROLE

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10/10/12

CUSTOMER / BESTELLER / CLIENT

SELLER / VERKÄUFER / VENDEUR PAGE 1 OF 2

A.M. CASTLE & CO

3400 N WOLF RD  
FRANKLIN PARK IL 60131

HVL

| CUSTOMER ORDER NO. / BESTELL-NR. / N° DE COMMANDE | CARPENTER NO. / WERKS-NR. / N° DE REFERENCE INTERNE | DATE / DATUM / DATE | WEIGHT / GEWICHT / POIDS |
|---|---|---------------------|--------------------------|
| 168510-004  | W59502  | 10/10/12            | 3156.000                 |

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE: 743043 UNS NUMBER S30300

PRODUCT DESCRIPTION: TYPE 303-00 ANNEALED COLD DRAWN  
PART NUMBER: IAC 4540

SPECIFICATION: CASTLE 3303-00 REV 20 (04/11/11)  
AMS 5640 REV U (10/ /07) TYPE I UNS# S30300  
ASTM-A484-11 AISI - 303  
ASTM-A582-05 TYPE 303

SIZE 0.187500 IN. ( 4.76 MM) RD BAR

PRIMARY HEAT CHEMISTRY (WT%): (TEST METHOD IS SHOWN IN PARENTHESIS)

|          |          |          |         |         |          |
|----------|----------|----------|---------|---------|----------|
| C (COM)  | MN (XRF) | SI (XRF) | P (XRF) | S (COM) | CR (XRF) |
| 0.05     | 1.76     | 0.52     | 0.03    | 0.32    | 17.26    |
| NI (XRF) | MO (XRF) | CU (XRF) | N (FUS) |         |          |
| 8.60     | 0.35     | 0.37     | 0.037   |         |          |

NO WELD REPAIR.  
SOLUTION ANNEALED TO PROVIDE A MICROSTRUCTURE FREE FROM CONTINUOUS GRAIN  
BOUNDARY CARBIDE PRECIPITATION (NETWORK).  
MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM AND ALPHA SOURCE  
CONTAMINATION.

DISCS MACROETCHED AND APPROVED

|                                    |              |
|------------------------------------|--------------|
| (T)RANSVERSE (L)ONGITUDINAL        |              |
| YIELD STRENGTH, (0.20 %) KSI (MPA) | 114.0 ( 786) |
| TENSILE STRENGTH, KSI (MPA)        | 127.0 ( 876) |
| ELONGATION IN 1.00", %             | 32.0         |
| REDUCTION OF AREA, %               | 34.0         |

HARDNESS AS SHIPPED 234HBW ( 99HRBW)

NO WELD REPAIR PERFORMED  
MATERIAL HAS BEEN MELTED AND MANUFACTURED IN THE USA WHICH IS A QUALIFYING  
COUNTRY TO DFARS REQUIREMENTS 252.225-7014 WITH ALTERNATE 1 FOR QUALIFYING  
COUNTRY 225.872.1, SUPERSEDED BY DFARS REQUIREMENTS DFARS 252.225-7008 AND  
252.225-7009.

CONTINUED ON NEXT PAGE

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Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO22359

Purchase Order Date 12/11/2013

PO Print Date 12/11/2013

Page Number 1 of 3

Order From : VC-MET001  
METAUX CASTLE  
A.M. CASTLE & CO. (CANADA) INC. - C/O 910720  
P.O. BOX 4090 STN A  
TORONTO, ON M5W OE9  
CA

Ship To : DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

FAKED  
12/13/14

|                 |                |                |                      |
|-----------------|----------------|----------------|----------------------|
| Contact Name    |                | Buyer          | Chantal Lavoie       |
| Vendor Phone    | 514 694 9575   | Customer POID  |                      |
|                 |                | Customer Tax # | 10127-2607           |
| Ship To Contact |                | Terms          | Net 30               |
| Ship To Phone   |                | Currency       | CAD                  |
| Ship Via:       | VENDOR'S TRUCK | FOB            | FCA - (Free Carrier) |
| Ship Acct:      |                |                |                      |

| Line Nbr  | Reference Vendor Part Number<br>Line Comments<br>Delivery Comments | Description/<br>Mfg ID | Req Date/<br>Taxable<br>Promise Date | CD | Req Qty/<br>Unit of<br>Measure | PO Unit Price | Extended Price |
|---|--|------------------------|--------------------------------------|----|--------------------------------|---------------|----------------|
| 1   | M303B1.000X2.000   | 303 BAR 1" X 2"        | 12/27/2013<br>Yes<br>12/27/2013      |    | 12.00<br>f                     | \$78.55       | \$942.60       |
| MATERIAL: AISI 303 SS BAR AS PER ASTM A582<br>NOTE: AISI 304/316 NOT ACCEPTABLE       |  |                        |                                      |    |                                |               |                |
| Line Total:   |  |                        |                                      |    |                                |               | \$942.60       |
| 2   | M303R0.187   | 303 Round Bar 0.187"   | 12/20/2013<br>Yes<br>12/20/2013      |    | 36.00<br>f                     | \$0.55        | \$19.80        |
| MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582<br>NOTE: AISI 304/316 NOT ACCEPTABLE |  |                        |                                      |    |                                |               |                |
| Line Total:   |  |                        |                                      |    |                                |               | \$19.80        |
| 3   | M303R1.250   | 303 Round Bar 1.250    | 12/20/2013<br>Yes<br>12/20/2013      |    | 36.00<br>f                     | \$9.90        | \$356.40       |
| MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582<br>NOTE: AISI 304/316 NOT ACCEPTABLE |  |                        |                                      |    |                                |               |                |

Note:

12/11/2013





Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO22359**

Purchase Order Date 12/11/2013

PO Print Date 12/11/2013

Page Number 2 of 3

**Order From :** VC-MET001  
METAUX CASTLE  
A.M. CASTLE & CO. (CANADA) INC. - C/O 910720  
P.O. BOX 4090 STN A  
TORONTO, ON M5W OE9  
CA

**Ship To :** DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**

**Vendor Phone** 514 694 9575

**Ship To Contact**

**Ship To Phone**

**Ship Via:** VENDOR'S TRUCK

**Ship Acct:**

**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #** 10127-2607

**Terms**

Net 30

**Currency**

CAD

**FOB**

FCA - (Free Carrier)

**Line Total:** \$356.40

4 M304R0.375 304 ROUND BAR 0.375 12/20/2013  
Yes  
12/20/2013

24.00  
f

\$1.17 \$28.08

MATERIAL: AIS 304/316 SS ROUND BAR AS PER ASTM A276  
NOTE: AISI 303 NOT ACCEPTABLE

**Line Total:** \$28.08

5 M304R1.000 304 round bar 1.00 12/20/2013  
Yes  
12/20/2013

24.00  
f

\$6.59 \$158.16

MATERIAL: AIS 304/316 SS ROUND BAR AS PER ASTM A276  
NOTE: AISI 303 NOT ACCEPTABLE

**Line Total:** \$158.16

6 M7075T73B2.500X03.25 7075-T73 Bar 2.50 x 3.25 12/27/2013  
Yes  
12/27/2013

14.00  
f

\$55.29 \$774.00

MATREIAL: 7075-T73 OR 7075-T7351/T73510/T73511  
BAR AS PER AMS-QQ-A-200/11 PR AMS-QQ-A-225/9  
OR AMS 4124 OR AMS-QQ-A-250/12 AMS 4078

**Note:**

12/11/2013





Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO22359**

Purchase Order Date 12/11/2013

PO Print Date 12/11/2013

Page Number 3 of 3

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TORONTO, ON M5W OE9  
CA

Ship To : DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

Contact Name  
Vendor Phone 514 694 9575  
  
Ship To Contact  
Ship To Phone  
Ship Via: VENDOR'S TRUCK  
Ship Acct:

Buyer Chantal Lavoie  
Customer POID  
Customer Tax # 10127-2607  
Terms Net 30  
Currency CAD  
FOB FCA – (Free Carrier)

Line Total: \$774.00

PO Total: \$2,279.04

Note: Pricing listed above is as per contract agreement between Dart Aerospace and the respective manufacturer.  
No substitution or deviation without consent.  
Certificate of Conformity or Material Certification required - YES NO  
PST# 6122-5207

Change Nbr: 2

Change Date: 12/11/2013